



**California State Fire Marshal
National Fire Incident Reporting System**

Data as of: 01/28/2008 10:07:13AM

FDID Range:
0 to No Upper Bound

Incident Date Range:
01/01/2003 to 12/31/2007

Incident Type:
111 to 123

Automatic Fire Extinguisher System Performance, 2003-2007

| <u>Incident Year</u> | <u>AES Operation</u> | <u>AES Type</u> | <u>Incident Count</u> | <u>Property Losses</u> | <u>Contents Losses</u> | <u>Fire Service Injuries</u> | <u>Fire Service Deaths</u> | <u>Civilian Injuries</u> | <u>Civilian Deaths</u> |
|--------------------------|-----------------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|----------------------------------|--------------------------------|------------------------------|----------------------------|
| 2003 | | | | | | | | | |
| | Fire too small to Operate | | | | | | | | |
| | | (Unspecified) | 3 | \$250 | \$0 | 0 | 0 | 0 | 0 |
| | | Carbon dioxide (CO2) system | 2 | \$600 | \$0 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 11 | \$39,525 | \$14,025 | 0 | 0 | 0 | 0 |
| | | Dry pipe sprinkler | 5 | \$5,500 | \$550 | 0 | 0 | 0 | 0 |
| | | Halogen type system | 1 | \$4,000 | \$0 | 0 | 0 | 0 | 0 |
| | | Other | 3 | \$0 | \$0 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 2 | \$1,100 | \$0 | 0 | 0 | 0 | 0 |
| | | Undetermined | 8 | \$35,700 | \$42,500 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 166 | \$366,666 | \$281,792 | 3 | 0 | 4 | 0 |
| | | Subtotal | 201 | \$453,341 | \$338,867 | 3 | 0 | 4 | 0 |
| | Operated and Effective | | | | | | | | |
| | | (Unspecified) | 4 | \$23,000 | \$5,600 | 0 | 0 | 0 | 0 |
| | | Carbon dioxide (CO2) system | 1 | \$0 | \$0 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 9 | \$5,350 | \$53,100 | 0 | 0 | 0 | 0 |
| | | Dry pipe sprinkler | 1 | \$214,000 | \$5,000 | 0 | 0 | 1 | 0 |
| | | Foam system | 2 | \$500 | \$10,500 | 0 | 0 | 0 | 0 |
| | | Halogen type system | 2 | \$5,000 | \$5,000 | 0 | 0 | 0 | 0 |
| | | Other | 4 | \$0 | \$500 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 1 | \$5,000 | \$5,000 | 0 | 0 | 0 | 0 |
| | | Undetermined | 1 | \$25,000 | \$0 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 169 | \$4,609,800 | \$6,288,545 | 6 | 0 | 8 | 0 |
| | | Subtotal | 194 | \$4,887,650 | \$6,373,245 | 6 | 0 | 9 | 0 |
| | Operated and NOT Effective | | | | | | | | |
| | | Dry chemical system | 2 | \$38,000 | \$15,500 | 0 | 0 | 0 | 0 |
| | | Dry pipe sprinkler | 1 | \$0 | \$0 | 0 | 0 | 0 | 0 |

Automatic Fire Extinguisher System Performance, 2003-2007

| <u>Incident Year</u> | <u>AES Operation</u> | <u>AES Type</u> | <u>Incident Count</u> | <u>Property Losses</u> | <u>Contents Losses</u> | <u>Fire Service Injuries</u> | <u>Fire Service Deaths</u> | <u>Civilian Injuries</u> | <u>Civilian Deaths</u> |
|-----------------------------------|--------------------------|------------------------|---------------------------|----------------------------|----------------------------|----------------------------------|--------------------------------|------------------------------|----------------------------|
| | | Wet pipe sprinkler | 7 | \$1,316,000 | \$5,541,100 | 0 | 0 | 0 | 0 |
| | | Subtotal | 10 | \$1,354,000 | \$5,556,600 | 0 | 0 | 0 | 0 |
| | 2003 | Total | 405 | \$6,694,991 | \$12,268,712 | 9 | 0 | 13 | 0 |
| 2004 | | | | | | | | | |
| Fire too small to Operate | | | | | | | | | |
| | | (Unspecified) | 4 | \$6,050 | \$520 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 16 | \$47,110 | \$17,501 | 0 | 0 | 1 | 0 |
| | | Dry pipe sprinkler | 5 | \$11,400 | \$8,600 | 0 | 0 | 0 | 0 |
| | | Other | 1 | \$0 | \$0 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 1 | \$0 | \$500 | 0 | 0 | 0 | 0 |
| | | Undetermined | 9 | \$26,200 | \$101 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 221 | \$525,957 | \$190,299 | 0 | 0 | 7 | 0 |
| | | Subtotal | 257 | \$616,717 | \$217,521 | 0 | 0 | 8 | 0 |
| Operated and Effective | | | | | | | | | |
| | | (Unspecified) | 6 | \$48,500 | \$23,000 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 8 | \$89,500 | \$66,500 | 0 | 0 | 0 | 0 |
| | | Dry pipe sprinkler | 3 | \$0 | \$2,500 | 0 | 0 | 0 | 0 |
| | | Halogen type system | 1 | \$1,000 | \$1,000 | 0 | 0 | 0 | 0 |
| | | Other | 3 | \$2,500 | \$500 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 4 | \$5,000 | \$1,500 | 0 | 0 | 0 | 0 |
| | | Undetermined | 3 | \$45,000 | \$5,000 | 0 | 0 | 1 | 0 |
| | | Wet pipe sprinkler | 243 | \$3,785,462 | \$5,130,001 | 1 | 0 | 9 | 0 |
| | | Subtotal | 271 | \$3,976,962 | \$5,230,001 | 1 | 0 | 10 | 0 |
| Operated and NOT Effective | | | | | | | | | |
| | | (Unspecified) | 2 | \$15,000 | \$5,000 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 9 | \$550,000 | \$475,500 | 0 | 0 | 0 | 0 |
| | | Undetermined | 3 | \$140,000 | \$87,500 | 1 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 7 | \$2,204,000 | \$612,000 | 0 | 0 | 0 | 0 |
| | | Subtotal | 21 | \$2,909,000 | \$1,180,000 | 1 | 0 | 0 | 0 |
| 2004 | Total | | 549 | \$7,502,679 | \$6,627,522 | 2 | 0 | 18 | 0 |
| 2005 | | | | | | | | | |
| Fire too small to Operate | | | | | | | | | |
| | | (Unspecified) | 3 | \$300 | \$1,000 | 0 | 0 | 0 | 0 |

Automatic Fire Extinguisher System Performance, 2003-2007

| <u>Incident Year</u> | <u>AES Operation</u> | <u>AES Type</u> | <u>Incident Count</u> | <u>Property Losses</u> | <u>Contents Losses</u> | <u>Fire Service Injuries</u> | <u>Fire Service Deaths</u> | <u>Civilian Injuries</u> | <u>Civilian Deaths</u> |
|--------------------------|-----------------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|----------------------------------|--------------------------------|------------------------------|----------------------------|
| | | Dry chemical system | 28 | \$194,900 | \$93,225 | 0 | 0 | 0 | 0 |
| | | Dry pipe sprinkler | 12 | \$53,550 | \$2,000 | 0 | 0 | 0 | 0 |
| | | Foam system | 1 | \$0 | \$0 | 0 | 0 | 0 | 0 |
| | | Halogen type system | 1 | \$25 | \$2,500 | 0 | 0 | 0 | 0 |
| | | Other | 1 | \$0 | \$0 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 8 | \$61,800 | \$100,350 | 2 | 0 | 0 | 0 |
| | | Undetermined | 4 | \$5,000 | \$1,000 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 343 | \$1,749,944 | \$3,827,502 | 2 | 0 | 12 | 0 |
| | | Subtotal | 401 | \$2,065,519 | \$4,027,577 | 4 | 0 | 12 | 0 |
| | Operated and Effective | | | | | | | | |
| | | (Unspecified) | 5 | \$225,500 | \$123,000 | 0 | 0 | 0 | 0 |
| | | Carbon dioxide (CO2) system | 2 | \$40,000 | \$10,000 | 4 | 0 | 0 | 0 |
| | | Dry chemical system | 18 | \$351,750 | \$211,000 | 2 | 0 | 5 | 0 |
| | | Dry pipe sprinkler | 2 | \$1,100 | \$1,100 | 0 | 0 | 0 | 0 |
| | | Foam system | 2 | \$5,000 | \$1,000 | 0 | 0 | 0 | 0 |
| | | Halogen type system | 1 | \$2,000 | \$2,000 | 0 | 0 | 0 | 0 |
| | | Other | 6 | \$54,000 | \$13,000 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 11 | \$149,700 | \$169,500 | 0 | 0 | 0 | 0 |
| | | Undetermined | 4 | \$28,000 | \$18,000 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 354 | \$7,714,600 | \$11,820,045 | 4 | 0 | 22 | 1 |
| | | Subtotal | 405 | \$8,571,650 | \$12,368,645 | 10 | 0 | 27 | 1 |
| | Operated and NOT Effective | | | | | | | | |
| | | Carbon dioxide (CO2) system | 1 | \$1,250,000 | \$500,000 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 5 | \$430,000 | \$110,500 | 0 | 0 | 0 | 0 |
| | | Other | 1 | \$75,000 | \$75,000 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 11 | \$1,182,000 | \$556,000 | 1 | 0 | 0 | 0 |
| | | Subtotal | 18 | \$2,937,000 | \$1,241,500 | 1 | 0 | 0 | 0 |
| 2005 | Total | | 824 | \$13,574,169 | \$17,637,722 | 15 | 0 | 39 | 1 |
| 2006 | Fire too small to Operate | | | | | | | | |
| | | (Unspecified) | 2 | \$10,500 | \$15,000 | 0 | 0 | 0 | 0 |
| | | Carbon dioxide (CO2) system | 2 | \$1,500 | \$3,000 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 13 | \$123,000 | \$117,500 | 0 | 0 | 0 | 0 |
| | | Dry pipe sprinkler | 9 | \$11,200 | \$24,265 | 0 | 0 | 0 | 1 |

Automatic Fire Extinguisher System Performance, 2003-2007

| <u>Incident Year</u> | <u>AES Operation</u> | <u>AES Type</u> | <u>Incident Count</u> | <u>Property Losses</u> | <u>Contents Losses</u> | <u>Fire Service Injuries</u> | <u>Fire Service Deaths</u> | <u>Civilian Injuries</u> | <u>Civilian Deaths</u> |
|--------------------------|-----------------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|----------------------------------|--------------------------------|------------------------------|----------------------------|
| | | Foam system | 1 | \$1,000 | \$0 | 0 | 0 | 0 | 0 |
| | | Other | 4 | \$95,250 | \$11,500 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 2 | \$2,000 | \$5,000 | 0 | 0 | 0 | 0 |
| | | Undetermined | 5 | \$300 | \$1,505 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 335 | \$1,009,955 | \$1,484,250 | 0 | 0 | 6 | 0 |
| | | Subtotal | 373 | \$1,254,705 | \$1,662,020 | 0 | 0 | 6 | 1 |
| | Operated and Effective | | | | | | | | |
| | | (Unspecified) | 6 | \$33,500 | \$16,400 | 0 | 0 | 0 | 0 |
| | | Carbon dioxide (CO2) system | 2 | \$5,000 | \$2,000 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 4 | \$5,700 | \$2,900 | 0 | 0 | 1 | 0 |
| | | Dry pipe sprinkler | 5 | \$795,001 | \$417,000 | 0 | 0 | 0 | 0 |
| | | Foam system | 2 | \$5,000 | \$5,000 | 0 | 0 | 0 | 0 |
| | | Other | 4 | \$0 | \$0 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 6 | \$512,800 | \$11,050 | 0 | 0 | 0 | 0 |
| | | Undetermined | 6 | \$29,090 | \$11,000 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 312 | \$4,516,400 | \$5,221,681 | 4 | 0 | 8 | 0 |
| | | Subtotal | 347 | \$5,902,491 | \$5,687,031 | 4 | 0 | 9 | 0 |
| | Operated and NOT Effective | | | | | | | | |
| | | (Unspecified) | 1 | \$15,000 | \$2,500 | 0 | 0 | 0 | 0 |
| | | Carbon dioxide (CO2) system | 1 | \$2,000 | \$0 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 7 | \$807,000 | \$1,188,500 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 3 | \$21,000 | \$2,000 | 0 | 0 | 0 | 0 |
| | | Undetermined | 1 | \$400,000 | \$75,000 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 12 | \$102,047,500 | \$2,288,500 | 0 | 0 | 1 | 0 |
| | | Subtotal | 25 | \$103,292,500 | \$3,556,500 | 0 | 0 | 1 | 0 |
| 2006 | Total | | 745 | \$110,449,696 | \$10,905,551 | 4 | 0 | 16 | 1 |
| 2007 | Fire too small to Operate | | | | | | | | |
| | | (Unspecified) | 1 | \$0 | \$5,000 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 29 | \$126,850 | \$106,850 | 0 | 0 | 0 | 0 |
| | | Dry pipe sprinkler | 8 | \$272,010 | \$250 | 0 | 0 | 0 | 0 |
| | | Foam system | 1 | \$250 | \$100 | 0 | 0 | 0 | 0 |
| | | Halogen type system | 1 | \$0 | \$0 | 0 | 0 | 0 | 0 |
| | | Other | 2 | \$0 | \$600 | 0 | 0 | 0 | 0 |

Automatic Fire Extinguisher System Performance, 2003-2007

| <u>Incident Year</u> | <u>AES Operation</u> | <u>AES Type</u> | <u>Incident Count</u> | <u>Property Losses</u> | <u>Contents Losses</u> | <u>Fire Service Injuries</u> | <u>Fire Service Deaths</u> | <u>Civilian Injuries</u> | <u>Civilian Deaths</u> |
|--------------------------|-----------------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|----------------------------------|--------------------------------|------------------------------|----------------------------|
| | | Other sprinkler system | 3 | \$500 | \$0 | 0 | 0 | 0 | 0 |
| | | Undetermined | 9 | \$57,600 | \$7,825 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 206 | \$692,025 | \$219,993 | 0 | 0 | 10 | 0 |
| | | Subtotal | 260 | \$1,149,235 | \$340,618 | 0 | 0 | 10 | 0 |
| | Operated and Effective | | | | | | | | |
| | | (Unspecified) | 8 | \$101,700 | \$36,650 | 0 | 0 | 0 | 0 |
| | | Carbon dioxide (CO2) system | 2 | \$10,000 | \$60,000 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 6 | \$38,600 | \$22,100 | 0 | 0 | 0 | 0 |
| | | Dry pipe sprinkler | 1 | \$0 | \$0 | 0 | 0 | 0 | 0 |
| | | Halogen type system | 2 | \$0 | \$0 | 0 | 0 | 0 | 0 |
| | | Other | 5 | \$1,000 | \$1,250 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 3 | \$15,500 | \$30,000 | 0 | 0 | 0 | 0 |
| | | Undetermined | 2 | \$200 | \$370 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 255 | \$13,048,173 | \$28,565,818 | 1 | 0 | 7 | 1 |
| | | Subtotal | 284 | \$13,215,173 | \$28,716,188 | 1 | 0 | 7 | 1 |
| | Operated and NOT Effective | | | | | | | | |
| | | Carbon dioxide (CO2) system | 1 | \$0 | \$25,000 | 0 | 0 | 0 | 0 |
| | | Dry chemical system | 3 | \$500,000 | \$190,000 | 0 | 0 | 0 | 0 |
| | | Other | 1 | \$0 | \$10,000 | 0 | 0 | 0 | 0 |
| | | Other sprinkler system | 1 | \$75 | \$100 | 0 | 0 | 0 | 0 |
| | | Wet pipe sprinkler | 10 | \$5,822,000 | \$6,562,500 | 0 | 0 | 0 | 0 |
| | | Subtotal | 16 | \$6,322,075 | \$6,787,600 | 0 | 0 | 0 | 0 |
| 2007 | Total | | 560 | \$20,686,483 | \$35,844,406 | 1 | 0 | 17 | 1 |
| | Grand Total | | 3,083 | \$158,908,018 | \$83,283,913 | 31 | 0 | 103 | 3 |

The data contained in this report comes from the State Fire Marshal's California All Incident Reporting System (CAIRS) data warehouse. Property and contents loss figures, if included herein, are estimates only. These emergency incident statistics, including injury and death counts, are based only upon information submitted to the State Fire Marshal by participating California fire departments. Please note that apparent variations in incident counts and associated losses shown in this report may be solely due to fluctuations in the amount of data submitted to the State Fire Marshal. And while the incoming data is validated according to logical data rules, individual data elements are not always verified for accuracy.